

PATENT ABSTRACTS OF JAPAN

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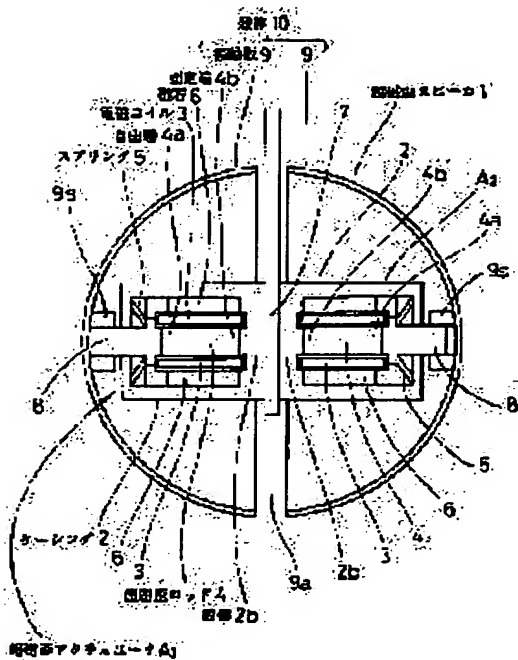
(54) ULTRA-MAGNETOSTRICTION SPEAKER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a speaker that produces a sound at a high sound pressure level even in the case that a casing cannot be placed in an environment such as underwater and that is used in water without housing an ultra-magnetostriction actuator in an airtight package.

SOLUTION: Two ultra-magnetostriction actuators A1, A2 acting as sound vibration generating sources are placed by opposing fixed ends so that their ultra-magnetostriction rods 4 are placed on a line. In the case of supplying a same sound signal to each electromagnetic coil 3, forces produced as

reactions at the fixed ends are repulsed as back mass and their elongated and contacted amount is delivered as it is to free ends, then a sound pressure level of the sound produced from diaphragms 9 mounted at free ends is not attenuated. Since gaps 9a are formed to a shell 10 formed by the diaphragms 9, the diaphragm 9 is not



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destroyed by a water pressure when being sunk in water and since waterproof processing is applied to the ultra-magnetostriction actuators A1, A2, no operation defect is caused.

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